## BATTERIES FOR ADVANCED TRANSPORTATION TECHNOLOGIES PROGRAM: ANNUAL REVIEW AGENDA

## Lawrence Berkeley National Laboratory, Building 66 Auditorium DAY ONE: Wednesday, May 28, 2003

TIME	SPEAKER (Affiliation)	PRESENTATION TITLE	
8:00	-	Coffee and Light Breakfast	
8:30	Don Grether (LBNL)	Welcome, Opening Remarks	
8:40	Frank McLarnon (LBNL)	BATT Program Overview, Baseline Systems	
8:55	Vince Battaglia (ANL/DOE)	Meeting Objectives, Instructions to Reviewers	
Cell Development			
9:05	Kathryn Striebel (LBNL)	Development of the Natural Graphite/LiFePO <sub>4</sub> Cell	
9:45		Break	
10:05	Tom Richardson (LBNL)	Cell Development Support, Overcharge Protection, Cathode Materials	
10:45	Karim Zaghib (IREQ)	Li-Ion Polymer Batteries with Low-Cost Materials	
Modeling			
11:20	John Newman (LBNL/UCB)	Improved Electrochemical Models	
12:00	-	Lunch (delivered)	
12:45	Ann Marie Sastry (University of Michigan)	Modeling of Electrode Failure Modes	
Diagnostics			
1:20	Robert Kostecki (LBNL)	Spectroscopic and Microscopic Characterization of Electrode Surfaces	
2:00	Jim McBreen (BNL)	Battery Materials: Structure and Characterization	
2:35	Philip Ross (LBNL)	High-Power Li-Ion Batteries	
3:10	-	Break	
3:30	Elton Cairns (LBNL./UCB)	Cathode Material Studies Using NMR	
4:05	Clare Grey (SUNY Stony Brook) and Gerd Ceder (MIT)	First-Principles Calculations and NMR Spectroscopy of Cathode Materials with Multiple Electron Transfers per Transition Metal	
4:45	Tom Devine (LBNL/UCB)	Corrosion of Aluminum Current Collectors in Lithium-Ion Batteries	
5:20	-	Adjourn	

## DAY TWO: Thursday, May 29, 2003

TIME	SPEAKER	PRESENTATION TITLE	
8:00	<u>-</u>	Coffee and Light Breakfast	
Anodes and Cathodes			
8:30	Mike Thackeray (ANL)	Non-Carbonaceous Anodes and Novel Cathodes	
9:15	Stan Whittingham (SUNY Binghamton)	Novel Anode and Cathode Materials	
10:00	-	Break	
10:20	Abbas Nazri (U. of Michigan)	Composite Anodes	
11:00	Marca Doeff (LBNL)	Cathode Materials for the BATT Program	
11:40	Steen Schougaard (U. of Texas)	Development of Advanced Cathodes: LiMn <sub>x</sub> Ni <sub>1-x</sub> O <sub>2</sub> Revisited	
12:10	-	Lunch (delivered)	
Electrolytes			
12:55	Nitash Balsara (LBNL/UCB)	Physical Characterization of Polymer Electrolytes	
1:30	John Kerr (LBNL)	Polymer Electrolyte Research	
2:05	Peter Fedkiw (North Carolina State University)	Composite Polymer Electrolytes for Lithium and Lithium-Ion Batteries	
2:40	-	Break	
3:00	Darryl DesMarteau and Steve Creager (Clemson University)	Battery Electrolytes Based on Oligomeric Lithium bis((perfluoroalkyl)sulfonyl)imide Salts	
3:35	Oleg Borodin (University of Utah)	Molecular Modeling of Solid Polymer Electrolytes, Single-Ion Conductors and Gel Electrolytes	
4:10	All	Discussion	
4:30	-	Adjourn	
4:40	Reviewers and DOE	Executive Review Session	